

Form PTO-1449 (Substitute) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Attorney Docket Number RXSD 1022-1	Serial/Patent Number Unassigned
	Applicant/Patent Owner Sunil Puria et al.	
	Filing/Issue Date Herewith	Group Art Unit Unassigned

11002 U.S. PRO
 09/996161
 11/27/01

PENDING U.S. PATENT APPLICATIONS						
Examiner Initial		Application Number	Filing Date	First Named Inventor	Petition to Expunge?	
					Yes	No

OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages)		
DAP		http://cas.et.tudelft.nl/~wissce/reports/giaco/subsection3.5.4.2.html <i>Amplitude Quantization Error</i> consisting of 1 page, downloaded on May 30, 2001. Date of publication unknown.
		http://www.its.bldrdoc.gov/projects/t1/glossary2000/_quantization.html <i>Quantization</i> consisting of 1 page, downloaded on October 31, 2001. Date of publication unknown.
		http://www.sfu.ca/sca/Manuals/ZAAPf/q/quantization_error.html <i>Quantization Error</i> consisting of 1 page, downloaded on October 31, 2001. Date of publication unknown.

Examiner DHARM A. PATEL	Date Considered 1/24/05
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
*1 = Copy not submitted because it was submitted in prior application SN / _____, filed _____, 20____, relied on under 35 USC §120. *2 = Copy not submitted because it was submitted in prior application SN / _____, filed _____, 20____, relied on under 35 USC §120.	

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PTO/SB/08A (08-00)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/996,161
				Filing Date	27 November 2001
				First Named Inventor	Sunil Puria et al
				Group Art Unit	2152
				Examiner Name	Unknown
Sheet	1	of	2	Attorney Docket Number	RXSD 1022-1

[illegible][illegible]

Examiner Signature	DHARMA A. PATEL	Date Considered	1/24/05
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
Sheet	2	of	2	Application Number 09/996.161	Filing Date 27 November 2001
				First Named Inventor Sunil Puria et al.	Group Art Unit 2152
				Examiner Name Unknown	Attorney Docket Number RXSD 1022-1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
DAP	C1	F. BASILE, "Using the Windows Volume Control Mixer," http://www.cakewalk.com/Support/Lessons/WindowsMixer.htm , 2001. Twelve Tone Systems, Inc.
	C2	Hearingtest.com: Web site providing a survey type hearing assessment test and a telephone supported test, date of first publication unknown, however it is believed to have been on line at least as early as October 2000. We believe that the URL registration date is 17 October 1996.
	C3	Didyouhearme.com: Web site providing an internet based hearing test, date of first publication unknown, however it is believed to have been on line at least as early as 1 July 2000. We believe that the URL registration date is 21 April 2000.
	C4	Handtronix.com: Web site providing an internet based hearing test, date of first publication unknown, however it is believed to have been on line at least as early as 1 January 2000. We believe that the URL registration date is 17 October 1996.
	C5	Freehearingtest.com: Web site providing an internet based hearing test, date of first publication unknown, but is believed to have been live on or about 1 December 2000. We believe that the URL registration date is 4 December 2000.
	C6	Audiainc.com (also hearingrx.com): Web site providing an internet based hearing test, date of first publication unknown but is believed to have been as early as 1 April 2001. We believe that the URL registration date is 18 December 1999 for audiainc.com and 26 January 2000 for hearingrx.com
	C7	Nigelworks.com: Web site providing an internet based hearing test, date of first publication unknown. We believe that the URL registration date is 18 July 1999.
	C8	Onlinehearing.com: Web site providing an internet based hearing test, date of first publication unknown but is believed to be as early as 1 May 2000. We believe that the URL registration date is 1 October 1998.
	C9	Songbirdhearing.com: Web site providing a survey-type hearing assessment test, date of first publication unknown.
	C10	Weinstein.cncfamily.com: Web site providing an internet based hearing test, date of first publication unknown.
	C11	Audiologyawareness.com: Web site providing survey type hearing assessment tests, date of first publication unknown. We believe that the URL registration date is 24 November 1997.

Examiner Signature <u>DHARMA A. PATIL</u>	Date Considered <u>1/24/05</u>
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<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>			Complete if Known		
Sheet	1	of	1	Application Number	09/996.161
				Filing Date	27 November 2001
				First Named Inventor	Sunil Puria et al.
				Group Art Unit	2152
				Examiner Name	Unknown
				Attorney Docket Number	RXSD 1022-1



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DAP	C12	J. R. STUART and R. J. WILSON, "Dynamic Range Enhancement using Noise-Shaped Dither at 44.1, 48 and 96 kHz," Presented at the 100th AES Convention, 1996, May 11-14, pp. 1-19, Copenhagen.	
	C13	R. A. WANNAMAKER, "Subtractive and Non-Subtractive Dithering: A Comparative Analysis," Presented at the 97th AES Convention, 1994, November 10-13, pp. 1-38, San Francisco.	
	C14	J. R. STUART and R. J. WILSON, "Dynamic Range Enhancement Using Noise-Shaped Dither Applied to Signals with and without Pre-emphasis," Presented at the 96th AES Convention, 1994, February 26 - March 1, pp. 1-29, Amsterdam.	
	C15	J. R. STUART, "Noise: Methods for Estimating Detectability and Threshold," Presented at the 94th AES Convention, 1993, March 16-19, pp. 1-24, Berlin.	
	C16	J. R. STUART and R. J. WILSON, "A Search for Efficient Dither for DSP Applications," Presented at the 92nd AES Convention, 1992, March 24-27, pp. 1-32, Vienna.	
	C17	J. R. STUART, "Predicting the Audibility, Detectability, and Loudness of Errors in Audio Systems," Presented at the 91st AES Convention, 1991, October 4-8, pp. 1-28, New York.	
	C18	J. R. STUART, "Estimating the Significance of Errors in Audio Systems," Presented at the 91st AES Convention, 1991, October 4-8, pp. 1-17, New York.	
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Examiner Signature <u>DANIELA A. PATIL</u>	Date Considered <u>1/24/05</u>
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